Problem Set 8

1. Griffiths 11.3.

2. Griffiths 11.4. You need calculate only the **time average** Poynting vector, intensity, and total power radiated (this is much simpler than computing the full time-dependent expressions).

3. Griffiths 11.9.

4. Griffiths 11.13.

5. Griffiths 11.16. You need calculate only $dP/d\Omega$, not P (thereby avoiding a messy integral).

6. Griffiths 11.17 (a) and (b) only.

7. Griffiths 11.25.

8. Griffiths 11.31.